

**Amendments to the Specification:**

Please replace the text at page 24, line 10 with the following amended text:  
regulatory system from Valentis (~~www.geneswitch.com~~), sold by Invitrogen (catalog

Please replace the text at page 24, line 29 with the following amended text:  
PPLLRQAIELFDHQGAEP AFLFGLELIICGLEKQLKCESGS (SEQ ID NO: 18); (a-1) tTA. (TetR-VP16)

Please replace the text at page 24, line 37 with the following amended text:  
YGG (SEQ ID NO: 19); (a-2) tTA2 (TetR-FFF) (Baron et al., 1997):

Please replace the text at page 25, line 9 with the following amended text:  
ALDDFDLDMLPADALDDFDLDMLPG (SEQ. ID. No.: 20); (a-3) tTA-p65 (TetR-p65) (Urlinger et al.,

Please replace the text at page 25, line 19 with the following amended text:  
GLPNGLLSGDEDFSSIADMDFSALLSQISS (SEQ. ID. No.: 21); (b) Lac repressor: GenBank

Please replace the text at page 25, line 27 with the following amended text:  
TASPRALADSLMQLARQVSRLESGQ (SEQ. ID. NO.: 22); (c) Xylose repressor: GenBank accession

Please replace the text at page 25, line 35 with the following amended text:  
LDMITM (SEQ. ID. NO.: 23);

Please replace the text at page 26, line 11 with the following amended text:  
GCEEKVNDVAVKLS (SEQ. ID. NO.: 24); (e) TetR-based T-Rex system: the TetR sequence is

Please replace the text at page 26, line 17 with the following amended text:  
VLAQIAAILCLMFPEHDDFQLLQAHA (SEQ. ID. NO.: 25); (g) *Streptomyces coelicolor*

Please replace the text at page 26, line 23 with the following amended text:  
EDAQDIMAARGGDTVAEMLDRDFEFALDLLVAGIDAMVEQA (SEQ. ID. NO.: 26); (h) *Streptomyces*

Please replace the text at page 26, line 29 with the following amended text:  
DYQDLEHRYALLQKHILPAIAVPSVLAALDLSEERGARLAAELAPTGKD (SEQ. ID. NO.: 27); (i) TraR-

Please replace the text at page 27, line 5 through page 28, line 31, with the following amended text:

QHRHITAVTNYHRQWQSTYFDKKFEALDPVVKRARSRKHIFTWSGEHERPTLSKD  
 ERAFYDHASDFGIRSGITIPKTANGFMSMFTMASDKPVIDLDREIDAVAAAATIGQI  
 HARISFLRTTPTAEDAACVDPKEATYLRWIAVGKTMEEIADVEGVKYNSVRVKLRE  
 RMKRFDVRSKAHLTALAIRRKLI (SEQ. ID. NO. 28); (j-i) The skilled person knows that almost any  
 fusion of the Phy sequences to a Gal4-DBD (aa's 1-63, 1-95, 1-141) would be  
 active. (j-ii) **Gal4-hpr-p65** from pSwitch (Invitrogen: Geneswitch\_man.pdf):  
 MDSQQPDLKLLSSIEQACDICRLKKLKCSKEKPKCAKCLKNNWECRYSPKTKRSPL  
 TRAHLTEVESRLERLEQLFLLIFPREDLDMILKMDSLQDIKALLEFPGVDQKKFNKV  
 RVVRALDAVALPQPVGVPNESQALSQRFTFSPGQDIQLIPPLINLLMSIEPDVIYAG  
 HDNTKPDTSSSLTSLNQLGERQLLSVVKWSKSLPGFRNLHIDDQITLIQYSWMSL  
 MVFGLGWRSYKHVSGQMLYFAPDLILNEQRMKESFYSLCLTMWQ1PQEFVKLQV  
 SQEEFLCMKVLLLLNTIPLEGLRSQTQFEEMRSSYIRELIKAIGLRQKGVVSSSQRF  
 YQLTKLLDNLHDLVKQLHLYCLNTFIQSRALSVEFPEMMSEVIAGSTPMEFQYLPDT  
 DDRHRIEEKRKRTYETFKSIMKKSPFSGPTDPRPPPRRIAVPSRSSASVPKPAPQP  
 YPFTSSLSTINYDEFPTMVFPSPGQISQASÄLAPAPPQVLPQAPAPAPAPAMVSALA  
 QAPAPVPVLAPGPPQAVAPPAPKPTQAGEGTLSEALLQLQFDDDEDLGALLGNSTD  
 PAVFTDLASVDNSEFQQLLNQGIPVAPHTTEPMLMEYPEAITRLVTGAQRPPDPAP  
 APLGAPGLPNGLLSGDEDFSSIADMDFSALLSQISS (SEQ. ID. NO.: 29); (j-iii-1) ZHFD1-FKBP fusion  
 (~~www.ariad.com/regulationkits~~)  
 MDYPAAKRVKLDSESRERPYACPVESCDRRFSRSEDLTRHIRIHTGQKPFQCRICMR  
 NFSRSDHLTTHIRHTGGGRRRKKRTSIETNIRVALEKSFLENQKPTSEEITMIADQL  
 NMEKEVIRVWFCNRRQKEKRINTRGVQVETISPGDGRTFPKRGQTCWHYTGMLE  
 DGKKFDSSSRDRNKPFKFMLGKQEVIRGWEEGVAQMSVGQRAKLTISPDYAYGAT  
 GHPGIIPPHATLVFDVELLKLEVEGVQVETISPGDGRTFPKRGQTCWHYTGMLED  
 GKKFDSSSRDRNKPFKFMLGKQEVIRGWEEGVAQMSVGQRAKLTISPDYAYGATG  
 HPGIIPPHATLVFDVELLKLETRGVQVETISPGDGRTFPKRGQTCWHYTGMLEDG  
 KKFDDSSSRDRNKPFKFMLGKQEVIRGWEEGVAQMSVGQRAKLTISPDYAYGATGH  
 PGIIPPHATLVFDVELLKLETSY (SEQ. ID. NO.: 30); (j-iii-2) FRB-p65 fusion  
 (~~www.ariad.com/regulationkits~~):  
 MDYPAAKRVKLDSESRILWHEMWHEGLEEASRLYFGERNVKGMFEVLEPLHAMMER  
 GPQTLKETSFNQAYGRDLMEAEQWCRKYMKSGNVKDLLQAWDLYYHVFRISK  
 RDEFPTMVFPSPGQISQASALAPAPPQVLPQAPAPAPAPAMVSALAQAPAPVPVLA  
 PGPPQAVAPPAPKPTQAGEGTLSEALLQLQFDDDEDLGALLGNSTDPAVFTDLASV  
 DNSEFQQLLNQGIPVAPHTTEPMLMEYPEAITRLVTGAQRPPDPAPAPLGAPGLPN  
 GLLSGDEDFSSIADMDFSALLSQISSTSY (SEQ. ID. NO.: 31); (j-iv-1) VgEcR from pVgRXR  
 (<http://www.invitrogen.com/content/sfs/vectors/pvgrxr.pdf>):

MAPPTDVSLGDELHLDGEDVAMAHADALDDFDLDM LGDGDSPGPGFTPHDSAPY  
 GALDMADFEFEQMFTDALGIDEYGGKLLGTSRRISNSISSGRDDLSPSSSLNGYSA  
 NESCDAKKSKKGPAPRVQEELCLVCGDRASGYHYNALTCGSCKVFFRRSVTKSA  
 VYCKFGRACEMDMYMRRKCQECRLKKCLAVGMRPECWPENQCAMKRREEKA  
 QKEKDKMTTSPSSQHGGNGSLASGGGQDFVKKEILDLMTCPPQHATIPLLPDEIL  
 AKCQARNIPSLTYNQLAVIYKLIWYQDGYEQPSEEDLRRIMSQPDENESQTDVSFR  
 HITEITILTVQLIVEFAKGLPAFTKIPQEDQITLLKACSSEVMMLRMARRYDHSSDSIF  
 FANNRSYTRDSYKMAGMADNIEDLLHFCRQMFSMKVDNVEYALLTAIVIFSDRPGL  
 EKAQLVEAIQSYIDTLRIYILNRHCGDSMSLVFYAKLLSILTELRTLGNQNAEMCFS  
 LKLKNRKLPKFLEEIWDVHAIPPSVQSHLQITQEENERLERAERMRASVGGAITAGI  
 DCDSASTSAAAAAAQHQPQPQPQPSSLTQND SQHQTQPQLQPQLPPQLQGQ  
 LQPQLQPQLQTQLQPQIQPQPQLLPVSAPVPASVTAPGSLSAVSTSSEYMGGSA  
 IGPITPATTSSITA AVTASSTTS AVPMGNGVGVGVGVGGNVSMYANAQTAMALMG  
 VALHSHQEQLIGGVAVKSEHSTTA (SEQ. ID. NO.: 32); (j-iv-2) RXR from pVgRXR  
 (<http://www.invitrogen.com/content/sfs/vectors/pvgnrx.pdf>);  
 MDTKHFLPLDFSTQVNSSLTSP TGRGSM AAPSLHPSLGP GIGSPGQLHSPISTLSS  
 PINGMGPPFSVISSPMGPHSMSVPTTPTLG FSTGSPQLSSPMNPVSSSEDIKPPLG  
 LNGVLKVP AHPSGN MASFTKHICAICGDRSSGKH YGVYSCEGCKGFFKRTVRKDL  
 TYTCRDNKDCLIDKRQRNRCQYCRYQMCLAMGMKREAVQEERQRGKDRNENEV  
 ESTSSANEDVPVERILEAE LAVEPKTETYVEANVGLNPSSPNDPVTNICQAADKQL  
 FTLVEWAKRIPHFSELPLDDQVILLRAGWNELLIASFSHR SIAVKDGILLATGLHVHR  
 NSAHSAGVG AIFDRVLTEL VSKMRDMQMDKTEL GCLRAIVLFNPDSKGLSNPAEV  
 EALREKVYASLEAYCKHKYPEQPGRFAKLLLR PALRSIGLKCLEHLFFFKLIGDTPI  
 DTFLMEMLEAPHQMT (SEQ. ID. NO.: 33).